

Subject card

	nent	realisation			2020/2	2021		
first-cycle studies		realisation			2020/2	2021		
		Subject gro	Academic year of realisation of subject			2020/2021		
Full-time studies	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study			
	Full-time studies		Mode of delivery			e-learning		
1		Language of instruction			Polish			
1		ECTS credits			3.0			
general academic profile		Assessment form			assessment			
Department of Informatics in Management -> Faculty of Management and Economics								
Subject supervisor		dr inż. Krzysztof Redlarski						
Teachers								
Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
E-learning hours included: 60.0								
Adresy na platformie eNauczanie: PODSTAWY PROJEKTOWANIA I GRAFIKA INŻYNIERSKA - Moodle ID: 7730 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7730								
Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
Number of study hours	60	0.0			0.0		60	
The student knows the basics of design methodology, has the ability to apply in design works, is able to independently make basic technical drawings and read them correctly.								
Course outcome		Subject outcome			Method of verification			
[K6_U06] uses basic theoretical knowledge to solve selected organizational problems, design technical solutions and manage projects, including engineering projects		The student knows the drawing standards		[SU4] Assessment of ability to use methods and tools				
[K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the		The student knows the basics of design methodology.		[SW1] Assessment of factual knowledge				
LECTURE Presentation of design theory. The importance of proper design in the work of an engineer and designer. Formulation of design problem. Design process. Silhouette designer. Creative thinking. DESIGN EXERCISES Implementation of handwritten drawings. Rules for drawing the various elements of technical drawing machine. Drawing dimensioning and descriptions of technical drawings. Draw connection of machines and equipment. Drawing zło eniowych drawings. Draw diagrams of the various fields of technology.								
	Department of Information Subject supervisor Feachers Lesson type Sumber of study hours E-learning hours inclused the PODSTAWY PROJE https://enauczanie.pg Learning activity Sumber of study hours Learning activity Fine student known design works Fead them correct Course outcome (K6_U06] uses basic knowledge to solve sorganizational problet technical solutions are projects, including emprojects [K6_W05] knows the and IT methods and IT m	Department of Informatics in Manage Subject supervisor Teachers Lesson type Lecture Number of study Telearning hours included: 60.0 Adresy na platformie eNauczanie: PODSTAWY PROJEKTOWANIA I Control of the student knows the barn design works, is able to read them correctly. Course outcome [K6_U06] uses basic theoretical knowledge to solve selected organizational problems, design technical solutions and manage projects, including engineering projects [K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organisation's resources, including technical resources LECTURE Presentation of the work of an engineer ard Design process. Silhouetted in the statistical and the statistical and the same projects in the statistical and the same projects. LECTURE Presentation of the work of an engineer ard Design process. Silhouetted in the statistical and the same projects. Silhouetted in the statistical and the same projects and the same projects. Silhouetted in the same projects and the same projects and the same projects. Silhouetted in the same projects and the same projects and the same projects. Silhouetted in the same projects and the same projects and the same projects. Silhouetted in the same projects and the same projects and the same projects and the same projects. The same projects are projects and the same projects are projects and the same projects are projects. The same projects are projects and the same projects are projects and the same projects are projects. The same projects are projects are projects and the same projects are projects are projects. The same projects are projects and the same projects are projects are projects and the same projects are projects and t	general academic profile Department of Informatics in Management -> Facul Organization of Study Organizational problems, design technical solutions and manage projects, including engineering projects [K6_W05] knows the statistical and IT methods and tools that enable the acquisition and presentation of data on the organizationing and descriptions of technical resources. DESIGN EXERCISES Implementation of design the he work of an engineer and designed machines and equipment. Drawing zeroscopic programs and equipment. Drawing zeroscopics and equipment.	Department of Informatics in Management -> Faculty of Managem of Informatics in Management -> Faculty of Management -> Faculty of Management of Informatics in Management -> Faculty of Management on Informatics in Management -> Faculty of Management on Informatics in Management -> Faculty of Management on Informatics in Management in Management on Informatics in Management in Management on Informatics in Management in Managem	ECTS credits Jeneral academic profile Assessment form Department of Informatics in Management -> Faculty of Management and Subject supervisor Teachers Jesson type Jeson type Jesson type Jesson	ECTS credits 3.0	ECTS credits 3.0	

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Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Project	60.0%	70.0%			
	Exam	60.0%	30.0%			
Recommended reading	Basic literature	 Tadeusz Dobrza ski: "Rysunek techniczny maszynowy" (wyd. 24), WNT Warszawa, 2005 J. Mazur, K. Kosi ski, K. Polakowski: "Grafika in ynierska z wykorzystaniem metod CAD", Wydawnictwo Politechniki Warszawskiej 2006r. Wojciech Gasparski: "Projektowanie", PWN, Warszawa 1978 i nowsze. 				
	Supplementary literature	plementary literature N/A				
	eResources addresses	PODSTAWY PROJEKTOWANIA I GRAFIKA INŻYNIERSKA - Moodle ID: 7730 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=7730				
Example issues/ example questions/ tasks being completed	Design process. Designer - silhouette, requirements. Basics of technical drawing. Executive and assembly drawings.					
Work placement	Not applicable					

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